

Title (en)  
ORGANIC ELECTROLUMINESCENT ELEMENTS

Title (de)  
ORGANISCHE ELEKTROLUMINIZENTE ELEMENTE

Title (fr)  
ELEMENTS ELECTROLUMINESCENTS ORGANIQUES

Publication  
**EP 0712916 B1 20030507 (EN)**

Application  
**EP 95909987 A 19950223**

Priority  
• JP 9500289 W 19950223  
• JP 11250294 A 19940526

Abstract (en)  
[origin: WO9533014A1] A first organic electroluminescent element comprises a hole-transporting luminescent layer (1) containing a dye dispersed therein on a molecular level and an electron-transporting layer (2) containing a triazole derivative represented by general formula (1). A second element is provided with a layer of a triazole derivative of formula (1). A third element comprises an electron-transporting layer, a hole-transporting layer and, interposed therebetween, a layer of a triazole derivative of formula (1). The three elements are each excellent in luminescence efficiency, luminance and stability, and capable of realizing blue luminescence, multiple primary-color luminescence and white luminescence, wherein each symbol is as defined in the specification.

IPC 1-7  
**C09K 11/06**; **H05B 33/20**; **H05B 33/22**; **H05B 33/14**

IPC 8 full level  
**C09K 11/06** (2006.01); **H05B 33/14** (2006.01)

CPC (source: EP KR US)  
**C09K 11/06** (2013.01 - EP KR US); **H05B 33/14** (2013.01 - EP US); **H05B 33/20** (2013.01 - KR); **Y02B 20/00** (2013.01 - EP US); **Y10S 428/917** (2013.01 - EP US)

Cited by  
EP0831676A3; EP0817538A1; US7622200B2; US7663149B2; US10790451B2; US7053402B2; US7326096B2; US7728518B2; US7732811B2; US8319210B2; US8916857B2

Designated contracting state (EPC)  
BE DE FR GB IT NL

DOCDB simple family (publication)  
**WO 9533014 A1 19951207**; CA 2168236 A1 19951207; DE 69530654 D1 20030612; DE 69530654 T2 20040311; EP 0712916 A1 19960522; EP 0712916 A4 19961009; EP 0712916 B1 20030507; KR 100227607 B1 19991101; KR 960704004 A 19960831; TW 421668 B 20010211; US 5834130 A 19981110

DOCDB simple family (application)  
**JP 9500289 W 19950223**; CA 2168236 A 19950223; DE 69530654 T 19950223; EP 95909987 A 19950223; KR 19960700380 A 19960125; TW 84101754 A 19950223; US 59143296 A 19960828